



# CONCLUSION



By the end of the 20<sup>th</sup> century, the Portland District had adapted to considerable changes, particularly in the environmental arena. While the District continued its longstanding commitment to navigation and hydropower, it also devoted many resources to the Corps' newer missions, including regulating wetlands and environmental restoration. At the same time, the District responded to new congressional mandates. Legislation, such as the Endangered Species Act of 1973, notably influenced navigation and hydropower during the period 1980-2000.

So significant did endangered species become that this could be called the "salmon era" for the Portland District. Consideration of endangered salmon affected almost every action of the District – and the Corps' efforts to save these fish while also providing navigation, hydropower, and other services highlighted an important theme of the era: the need to balance a growing diversity of interests with the increasing demands on the region's limited natural resources. The controversy surrounding Elk Creek Dam exemplified the magnitude of changes that had occurred during this period. A half a century earlier, this project likely would have been completed with little, if any, opposition. Another significant development included the Corps' research on salmon and its construction of fish-passage facilities, which illustrated adaptive and innovative approaches to saving salmon.

The period 1980-2000 was also characterized by the District's response to emergencies. The eruption of Mount St. Helens was a

monumental event in the District's history as well as that of the region. The Corps' quick mobilization and response to that disaster, along with the assistance provided during the Alaska Oil Spill in 1989 and the Flood of 1996, demonstrated the District's connection to Pacific Northwest communities, marking a high point in the public's reaction to the agency. As one dredge captain commented, the Corps' aid during disasters represented the District's "glory" days.<sup>1</sup>

The last decades of the 20<sup>th</sup> century also marked a turning point in water resources planning and management. The Water Resources Development Act of 1986 directed non-federal interests to share the costs for navigation, flood control, and other projects. From that point, the Corps worked with non-federal interests to develop projects that were environmentally and socially responsible as well as economically sound.

Changes in congressional appropriations and funding led the Corps to modify the way it conducted business during the end of the 20<sup>th</sup> century. The agency adopted concepts from private industry during this period, attempting to improve efficiency and competitiveness. Project management, which emphasized teamwork, cost control, and timeliness, proved to be a significant development in Portland as well as other districts – one that is likely to persist.

Many of the major trends of the late 20<sup>th</sup> century will continue into the 21<sup>st</sup> century. Projects such as the Columbia River Channel Deepening, for instance, will require ongoing consideration of endangered species and environmental impacts as well

as the need to balance a diversity of interests. The Willamette River restoration initiative and the Lower Columbia River Estuary Program highlight the continued importance of the Corps' environmental work.

The story of the Portland District demonstrates the adaptability, innovation, and determination of its employees – and it reveals how their work has helped shape the history of the region. As a new generation of employees face new challenges, they can draw from the legacy and the tradition of service of their predecessors. As the new District Engineer, Colonel Richard W. Hobernicht aptly observed shortly after taking command in July of 2002, "It's the people that make the District."<sup>2</sup>





# ENDNOTES



<sup>1</sup> Miguel Jiminez, Interview with Lisa Mighetto, Aboard the Yaquina, Portland, Oregon, June 13, 2001.

<sup>2</sup> “The People of the Portland District.” Video Produced for Portland District Public Affairs by Historical Research Associates, 2002.



# Register of Dams in Oregon from The World Register of Dams 1984 - 1988

Name of Dam	Year of Completion	River	Nearest City	State	Type	Foundation	Foundation Height above Lowest Foundation (m)	Length of Crest (m)	Volume Content of Dam (10 <sup>3</sup> m <sup>3</sup> )	Reservoir Area (10 <sup>3</sup> m <sup>2</sup> )	Destination Purpose	Maximum Discharge Capacity of Spillways (m <sup>3</sup> /s)	Type of Spillways	Owner	Engineering By	Construction By
Applegate	1980	Applegate	Applegate	OR	TE	R/S	74	366	2150	101377	ICR	2656	V	COE	COE	Peter Kewit
Bonneville	1937	Columbia	Bonneville	OR	PG	R	60	755	893	696815	HNR	45307	V	COE	COE	Columbia Const. Co.
Big Cliff	1953	N. Santiam	Mill City	OR	PG	R	58	85	68	7955	H	4984	V	COE	COE	Columbia Const. Co./ Consolidated Builders
Blue River	1968	Blue	Springfield	OR	TE	R/S	95	381	3726	110380	CR	1501	V	COE	COE	Lockheed Ship Building & Const. Co
Cottage Grove	1942	C.F. Willamette	Cottage Grove	OR	TE	R/S	31	643	581	40625	CINR	1155	L	COE	COE	T.E.Connelly Co.
Cougar	1964	S.F. McKenzie	Springfield	OR	ER	R/S	158	488	9939	270463	HCI/R	2152	V	COE	COE	Merritt-Chapman-Scott
Detroit	1953	N. Santiam	Mill City	OR	PG	R	141	482	1147	561152	HORI	4984	V	COE	COE	Consolidated Builders
Dexter	1955	M.F. Willamette	Eugene	OR	TE	R/S	36	843	600	33916	HR	7646	V	COE	COE	McNutt Bros. & C.J. Montag & Sons
Dorena	1949	Row	Cottage Grove	OR	TE	R/S	47	1006	2312	95580	CINR	2761	L	COE	COE	Deena Const. Co.
Fall Creek	1965	Fall Creek	Springfield	OR	ER	R/S	62	1539	3802	154163	CNIR	2333	V	COE	COE	Montag-Halvorsen-McLoughlin
Foster	1967	S. Santiam	Sweethome	OR	ER	R/S	38	1391	609	75231	HORI	5522	V	COE	COE	Paul Hardman, Inc.
Green Peter	1967	M. Santiam	Sweethome	OR	PG	R	115	462	873	530319	CHRI	3115	V	COE	COE	Paul Hardman, Inc.
Hills Creek	1962	M.F. Willamette	Oakridge	OR	TE	R/S	104	703	8257	439055	CHIS	4010	V	COE	COE	Shed Construction
John Day	1968	Columbia	Rufus	OR	PG/ER	R	70	1798	2164	616505	HRNC	63713	V	COE	COE	Montag-Halvorsen-McLoughlin; Morrison-Knudsen; Others
McNary	1957	Columbia	Umatilla	OR	PG/ER	R	67	2245	3668	1665200	HSRI	62297	V	COE	COE	Atkinson, Ostrander & Jones
Lookout Point	1953	M.F. Willamette	Eugene	OR	TE	R/S	84	968	5892	562385	CINH	7646	V	COE	COE	Macco Corp.; Morrison-Knudsen, Peter Kewit
Lost Creek	1976	Rogue	Shady Grove	OR	ER	R/S	105	1097	8257	573485	CHSR	4474	V	COE	COE	Unppqua Navigation
The Dalles	1957	Columbia	The Dalles	OR	PG/ER	R	61	2662	2340	410073	HNRI	64845	V	COE	COE	Guy Atkinson; Ostrander; S.A. Healy, Dalles Powerhouse
Willow Creek	C	Willow Creek	Heppner	OR	PG	R	47	543	308	5116	CR	2595	L	COE	COE	Eucon Corp.

**Legends:**

Types of dams: Earth = TE; Rockfill = ER; Gravity = PG; Buttress = CB; Arch = VA; Multi-arch = MV  
 Foundation: Rock = R; Soil = S; Part of dam is on rock = R/S

**Legends:**

Destination Purpose: Irrigation = I; Hydroelectric = H; Flood Control = C; Navigation = N; Water Supply = S; Recreational = R  
 Type of Spillway: Uncontrolled = L; Controlled = V



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# LIST OF ACRONYMS

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ADAS	Automatic Data Acquisition System
AMPRS	Automated Management Project Reporting Systems
ASACW	Assistant Secretary of the Army for Civil Works
BPA	Bonneville Power Administration
BRAC	Base Realignment and Closure
CADD	Computer Aided Design and Drafting
CEAP	Corps of Engineers Automation Program
CEFMS	Corps of Engineers Financial Management System
CERCLA	Comprehensive Environmental Response, Compensation and Liability
CERF	Corps of Engineers Reserve Fleet
CFS	Cubic Feet per Second
CMT	Crisis Management Team
COEMIS	Corps of Engineers Management Information System
CPAC	Civilian Personnel Advisory Center
CPO	Civilian Personnel Office
CPOC	Civilian Personnel Operations Center
CPOCMA	Civilian Personnel Operations Center Management Agency
CREST	Columbia River Estuary Study Taskforce
CRITFC	Columbia River Inter-Tribal Fish Commission
CRM	Cultural Resources Management
CTWG	Caspian Tern Working Group
CWA	Clean Water Act
DCPDS	Defense Civilian Personnel Data System
DDE	Deputy District Engineer
DDE [PM]	Deputy District Engineer for Project Management
DE	District Engineer
DEQ	Department of Environmental Quality
DERP	Defense Environmental Restoration Project
DMMP	Dredged Material Management Plan
DMSP	Dredge Management Sediment Program
DMMS	Dredge Material Management Study
DoD	Department of Defense
DOE	Department of Energy
DRS	Damage Report Surveys
EA	Environmental Assessment
EIS	Environmental Impact Statement
EIT	Engineer in Training
EOC	Emergency Operations Center
EPA	Environmental Protection Agency
ERDAS	Earth Resource Data Analysis
ERDC	Engineer Research and Development Center
ERGO	Environmental Review Guide for Operations
ESA	Endangered Species Act
ESC	Engineer Study Center
ESU	Evolutionary Significant Unit
FAC	Field Advisory Committee
FEMA	Federal Emergency Management Act
FONSI	Finding of No Significant Impact



## APPENDIX

FPC	Fish Passage Center
FUDS	Formally Used Defense Sites
FWPCA	Federal Water Pollution Control Act
GAO	General Accounting Office
GIS	Geographic Information Systems
GPS	Global Positioning System
HRS	Hazard Ranking System
HTRW	Hazardous, Toxic and Radioactive Waste
ICMO	Interagency Contract Management Office
IM-I	Integration and Implementation Branch
ISMP	Information Systems Modernization Program
ISO	International Organization for Standardization
JBS	Juvenile Bypass System
LDP	Leadership Development Program
LMI	Logistics Management Institute
MCY	Million Cubic Yards
MDF	Minimum Dredge Fleet
MGR	Minimum Gap Runner
MOP	Minimum Operating Pool
NAGPRA	Native American Graves Protection and Repatriation Act
NCP	National Contingency Plan
NEPA	National Environmental Policy Act
NHPA	National Historic Preservation Act
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NPL	National Priorities List
NPR	National Performance Review
NPS	National Park Service
NRRS	National Recreation Reservation System
NWD	Northwestern Division
NWPPC	Northwest Power Planning Council
ODFW	Oregon Department of Fish and Wildlife
ODLS	Oregon Division of State Lands
OEC	Oregon Environmental Council
ONRC	Oregon Natural Resources Council
OSU	Oregon State University
PAH	Polyaromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PIES	Project Improvements for Endangered Species
PIT	Passive Integrated Transponder
PMBP	Project Management Business Process
POD	Pacific Ocean Division
PPM	Programs and Project Management
PPMD	Programs and Project Management Division
PPPM	Planning, Programs and Project Management Division
PSU	Portland State University
RBC	Regional Business Center
RCC	Roller Compacted Concrete
RCC	Reservoir Control Center
RD/RA	Remedial Design/Remedial Action
RIF	Reduction in Force



RI/FS	Remedial Investigation/Feasibility Study
RMB	Regional Management Board
SARA	Superfund Amendments and Reauthorization Act
SCEP	Student Career Experience Program
SEIS	Supplemental Environmental Impact Statement
SFO	Support for Others
SHPO	State Historic Preservation Office
SPD	South Pacific Division
SRS	Sediment Retention Structure
STEP	Student Training Employment Program
STS	Submersible Traveling Screen
TAQ	Total Army Quality
TDG	Total Dissolved Gas
TWG	Turbine Working Group
USACE	United States Army Corps of Engineers
USAID	U.S. Agency for International Development
USDA	U.S. Department of Agriculture
USGS	U.S. Geological Survey
USFWS	U.S. Fish and Wildlife Service
VOC	Volatile Organic Compound
VCP	Voluntary Cleanup Program
WCPOC	West Civilian Personnel Operation Center
WES	Waterways Experiment Station
WRDA	Water Resources Development Act